

## United States Patent and Trademark Office

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# NOTICE OF ALLOWANCE AND FEE(S) DUE

27076

7590

12/04/2003

DORSEY & WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT SUITE 3400 1420 FIFTH AVENUE SEATTLE, WA 98101 EXAMINER

BRAGDON, REGINALD GLENWOOD

ART UNIT

PAPER NUMBER

2188

DATE MAILED: 12/04/2003

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/642 546	08/17/2000	Brent Keeth	500644.01	7867

TITLE OF INVENTION: METHOD AND SYSTEM FOR USING DYNAMIC RANDOM ACCESS MEMORY AS CACHE MEMORY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	03/04/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### **HOW TO REPLY TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 27076 7590 12/04/2003 Certificate of Mailing or Transmission DORSEY & WHITNEY LLP I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. INTELLECTUAL PROPERTY DEPARTMENT **SUITE 3400** 1420 FIFTH AVENUE (Depositor's name) SEATTLE, WA 98101 (Signature) ATTORNEY DOCKET NO. CONFIRMATION NO. FIRST NAMED INVENTOR APPLICATION NO. FILING DATE 7867 500644.01 08/17/2000 Brent Keeth 09/642.546 TITLE OF INVENTION: METHOD AND SYSTEM FOR USING DYNAMIC RANDOM ACCESS MEMORY AS CACHE MEMORY DATE DUE TOTAL FEE(S) DUE PUBLICATION FEE SMALL ENTITY ISSUE FEE APPLN, TYPE 03/04/2004 \$1330 \$1330 NO nonprovisional ART UNIT CLASS-SUBCLASS **EXAMINER** 711-106000 2188 BRAGDON, REGINALD GLENWOOD 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form attorneys or agents. If no name is listed, no name PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE individual corporation or other private group entity Please check the appropriate assignee category or categories (will not be printed on the patent); 4b. Payment of Fee(s): 4a. The following fee(s) are enclosed: ☐ Issue Fee ☐ A check in the amount of the fee(s) is enclosed. □ Payment by credit card. Form PTO-2038 is attached. Publication Fee ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_ (enclose an extra copy of this form). ☐ Advance Order - # of Copies Deposit Account Number Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Date) (Authorized Signature) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is application. Confidentially is governed by 5.3.5.2. The action of the complete of take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO. Commissioner for Patents Alexandria, Virginia 27313-1450. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450

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P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

ATTORNEY DOCKET NO. CONFIRMATION NO. FIRST NAMED INVENTOR APPLICATION NO. FILING DATE 500644.01 7867 08/17/2000 Brent Keeth 09/642,546 **EXAMINER** 27076 7590 12/04/2003 BRAGDON, REGINALD GLENWOOD DORSEY & WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT ART UNIT PAPER NUMBER **SUITE 3400** 2188 1420 FIFTH AVENUE SEATTLE, WA 98101 DATE MAILED: 12/04/2003

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 656 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 656 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/642,546	08/17/2000	Brent Keeth	500644.01	7867	
27076 75	590 12/04/2003		EXAM	INER	
DORSEY & WHITNEY LLP			BRAGDON, REGINALD GLENWOOD		
	PROPERTY DEPARTME	NT	ART UNIT	PAPER NUMBER	
SUITE 3400 1420 FIFTH AVE	NUE		2188	10	
SEATTLE, WA 98	3101		DATE MAILED: 12/04/2003	, / ~	

### Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue pat	en	t,
except a design or plant patent:		_

# (b) Issue fee for issuing a design patent:

### (c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	
	09/642,546	KEETH ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Reginald G. Bragdon	2188	
Th MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not include n will be mailed in due o	d course. <b>THIS</b>
<ol> <li>This communication is responsive to the amendment and I</li> <li>The allowed claim(s) is/are 1-27.</li> <li>The drawings filed on 12 November 2003 are accepted by</li> <li>Acknowledgment is made of a claim for foreign priority ur</li> </ol>	the Examiner.		
a) ☐ All b) ☐ Some* c) ☐ None of the:			
<ol> <li>Certified copies of the priority documents have</li> </ol>			
<ol><li>Certified copies of the priority documents have</li></ol>	• •		_
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage applicat	ion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:  5. Acknowledgment is made of a claim for domestic priority uperference was included in the first sentence of the specification.	ation or in an Application Data Shee	ional application) since t. 37 CFR 1.78.	a spécific
<ul> <li>(a) ☐ The translation of the foreign language provisional a</li> <li>6. ☐ Acknowledgment is made of a claim for domestic priority u</li> </ul>		ince a specific referenc	e was included
in the first sentence of the specification or in an Application			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	f this communication to file a reply c this application. THIS THREE-MO	omplying with the requi NTH PERIOD IS NOT	rements noted EXTENDABLE
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			OTICE OF
<ul> <li>8. CORRECTED DRAWINGS (as "replacement sheets") must</li> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No</li> <li>(b) including changes required by the proposed drawing or</li> </ul>	son's Patent Drawing Review ( PTO		kaminer.
(c) ☐ including changes required by the attached Examiner's	s Amendment / Comment or in the C	Office action of Paper N	lo
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawi he margin according to 37 CFR 1.121(	ngs in the front (not the (d).	back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T</li> </ol>	SIT OF BIOLOGICAL MATERIAL IN THE DEPOSIT OF BIOLOGICAL MA	must be submitted. N TERIAL.	lote the
Attachm nt(s)			
1☐ Notice of References Cited (PTO-892)	5☐ Notice of Informal Pa	atent Application (PTO-	152)
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6☐ Interview Summary (	PTO-413), Paper No	·
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 10	<sup>3),</sup> 7☐ Examiner's Amendm	ent/Comment	
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊡ Examiner's Statemer 9⊡ Other .	Reginald G. Bragdo Primary Examiner	Braghn
		Art Unit: 2188	